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NOTICES FROM THE LICK OBSERVATORY.*

PREPARED BY MEMBERS OF THE STAFF.

NEW DOUBLE STARS.

The following double stars were found with the 12-inch equatorial of this Observatory in the course of my double-star work. As they are not contained in BURNHAM'S very complete manuscript catalogue, they may safely be called new.

The star places are all for 1900.0.

SDM. — 2° 3357.

	R. A. 11 ^h 24 ^m 16 ^s .	Decl. — 3° 10'	
	θ_0	ρ_0	Mags. Seeing.
1899.440	53°.5	2''.28	8.9 — 12.5 3 36-inch.
.451	54 .2	—	9.0 — 12.5 2 + 12
.459	53 .9	2 .07	8.5 — 13.0 3 36
1899.45	53°.9	2''.18	8.8 — 12.7

SDM. — 5° 3300.

	R. A. 11 ^h 24 ^m 38 ^s	Decl. — 5° 45'	
1899.429	263°.6	0''.49	9.0 — 9.0 3 12-inch.
.432	264 .7	[0.55 ±] est.	9.0 — 9.0 3 12
.440	255 .1	0 .51	8.9 — 9.0 2 36
.459	262 .2	0 .51	8.9 — 9.0 3 36
1899.44	261°.4	0''.50	8.9 — 9.0.

SDM. — 4° 3858.

	R. A. 15 ^h 13 ^m 27 ^s .	Decl. — 5° 9'	
	AB.		
1899.442	351°.6	0''.38	9.0 — 9.0 3 36-inch.
.456	348 .5	0 .36	9.0 — 9.0 3 36
.459	350 .1	0 .41	9.0 — 9.0 3 36
1899.45	350°.1	0''.38	9.0 — 9.0

* Lick Astronomical Department of the University of California.

AB and C.

1899.442	81°.0	2".76	— 14.5	3	36-inch.
.456	79°.3	2°.43	— 14.0	3	36
.459	77°.9	2°.44	— 14.5	3	36
1899.45	79°.4	2".54	— 14.3		

AB and D.

1899.451	0°.7	14".99	— 12.0	3	12-inch.
.454	0°.9	14°.97	— 12.0	3	12
1899.45	0°.8	14".98	— 12.0		

AB and E.

1899.456	208°.0	27".25	— 14.5	3	36-inch.
.459	210°.0	27°.31	— 14.5	3	36
1899.46	209°.0	27".28	— 14.5		

The wide pair, AD, was noted with the 12-inch, and A was suspected as a very close double with the same instrument. In verifying this with the 36-inch, the faint stars C and E were found. The stars AB and C form a very pretty triple with the large telescope.

SDM.—4° 3880.

R. A. 15^h 19^m 5^s. Decl. — 4° 45'

1899.459	238°.9	1".41	8.5 — 13.5	3	36-inch.
.473	239°.7	1°.51	— 13.5	3	36
.475	236°.2	1°.37	— 13.5	3	36
1899.47	238°.3	1".44	8.5 — 13.5		

The faint companion is barely visible with the 12-inch.

LL. 28131.

R. A. 15^h 21^m 22^s. Decl. — 5° 18'

1899.454	146°.3	0".70	8.7 — 9.1	3	12-inch.
.459	147°.1	0°.67	8.5 — 9.2	3	36
.473	148°.5	0°.58	8.5 — 9.0	3	36
1899.46	147°.3	0".65	8.6 — 9.1		

In the finder-field with the preceding star. Well separated with the 12-inch.

R. G. AITKEN.

July 10, 1899.